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SECTION EX
EXHAUST SYSTEM

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PRECAUTION

PRECAUTIONS

Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"

INFOID:000000001726704

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. This system includes seat belt switch inputs and dual stage front air bag modules. The SRS system uses the seat belt switches to determine the front air bag deployment, and may only deploy one front air bag, depending on the severity of a collision and whether the front occupants are belted or unbelted. Information necessary to service the system safely is included in the SR and SB section of this Service Manual.

WARNING:

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see the SR section.
- Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

Precaution for Liquid Gasket

INFOID:000000001726705

REMOVAL OF LIQUID GASKET SEALING

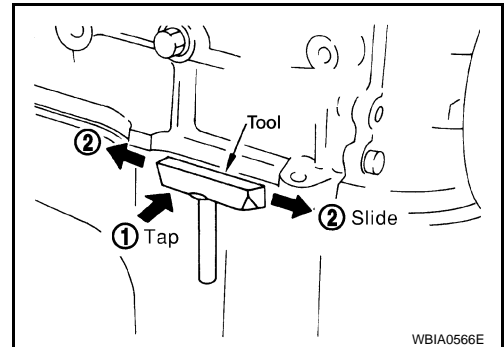
- After removing the bolts and nuts, separate the mating surface and remove the old liquid gasket sealing using Tool.

Tool number : KV1011100 (J-37228)

CAUTION:

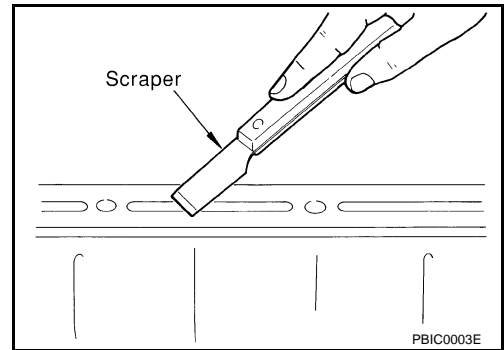
Do not damage the mating surfaces.

- Tap the seal cutter to insert it (1).
- In areas where the Tool is difficult to use, lightly tap to slide it (2).



LIQUID GASKET APPLICATION PROCEDURE

1. Remove the old liquid gasket adhering to the gasket application surface and the mating surface using suitable tool.
 - Remove the liquid gasket completely from the groove of the liquid gasket application surface, bolts, and bolt holes.
2. Thoroughly clean the mating surfaces and remove adhering moisture, grease and foreign material.



PRECAUTIONS

[QR25DE]

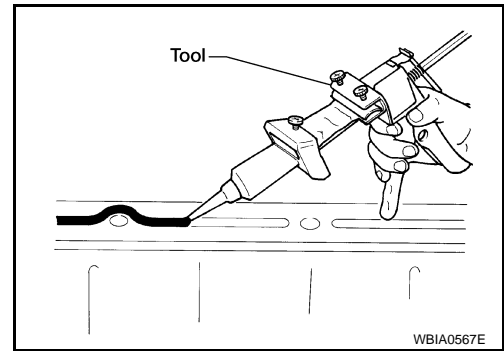
< PRECAUTION >

3. Attach the liquid gasket tube to the Tool.

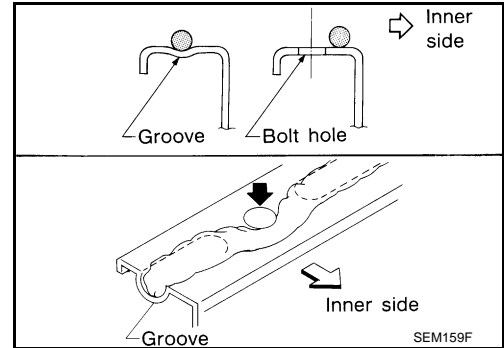
Tool number : WS39930000 (—)

Use Genuine RTV Silicone Sealant or equivalent. Refer to [GI-15, "Recommended Chemical Products and Sealants"](#).

4. Apply the liquid gasket without breaks to the specified location with the specified dimensions.



- If there is a groove for the liquid gasket application, apply the liquid gasket to the groove.
- As for the bolt holes, normally apply the liquid gasket inside the holes. If specified in the procedure, it should also be applied outside the holes.
- Within five minutes of liquid gasket application, install the mating component.
- If the liquid gasket protrudes, wipe it off immediately.
- Do not retighten after the installation.
- Wait 30 minutes or more after installation before refilling the engine with engine oil and engine coolant.



CAUTION:

If there are specific instructions in this manual, observe them.

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PREPARATION

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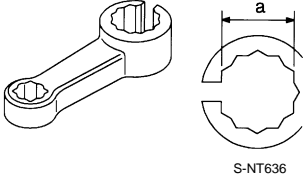
PREPARATION

PREPARATION

Special Service Tool

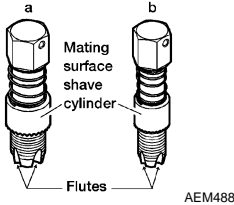

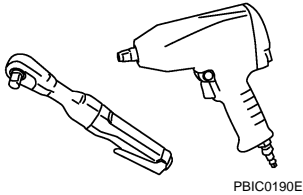
INFOID:000000001343142

The actual shapes of Kent-Moore tools may differ from those of special service tools illustrated here.

Tool number (Kent-Moore No.) Tool name	Description
KV10114400 (J-38365) Heated oxygen sensor wrench	Loosening or tightening heated oxygen sensors: a: 22 mm (0.87 in)
 <p style="text-align: center; font-size: x-small;">S-NT636</p>	

Commercial Service Tool

INFOID:000000001343143

(Kent-Moore No.) Tool name	Description
(J-43897-18) (J-43897-12) Oxygen sensor thread cleaner	Reconditioning the exhaust system threads before installing a new oxygen sensor (Use with anti-seize lubricant shown below): a: J-43897-18 (18 mm dia.) for zirconia oxygen sensor b: J-43897-12 (12 mm dia.) for titania oxygen sensor
 <p style="text-align: center; font-size: x-small;">AEM488</p>	
Anti-seize lubricant (Permatex 133AR or equivalent meeting MIL specification MIL-A-907)	Lubricating oxygen sensor thread cleaning tool when reconditioning exhaust system threads
 <p style="text-align: center; font-size: x-small;">AEM489</p>	
Power tool	Loosening nuts and bolts
 <p style="text-align: center; font-size: x-small;">PBIC0190E</p>	

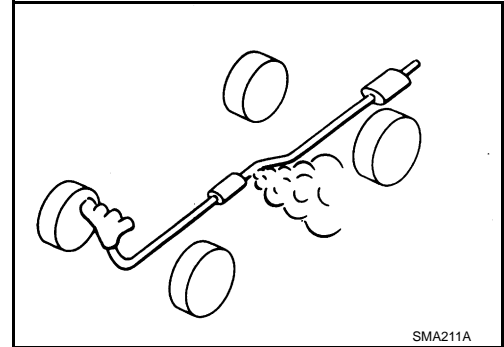
ON-VEHICLE MAINTENANCE

EXHAUST SYSTEM (QR25DE)

Checking Exhaust System

INFOID:000000001343144

Check the exhaust pipes, muffler, and mounting components for incorrect attachment, leaks, cracks, damage, or deterioration.



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EXHAUST SYSTEM (QR25DE)

< ON-VEHICLE REPAIR >

[QR25DE]

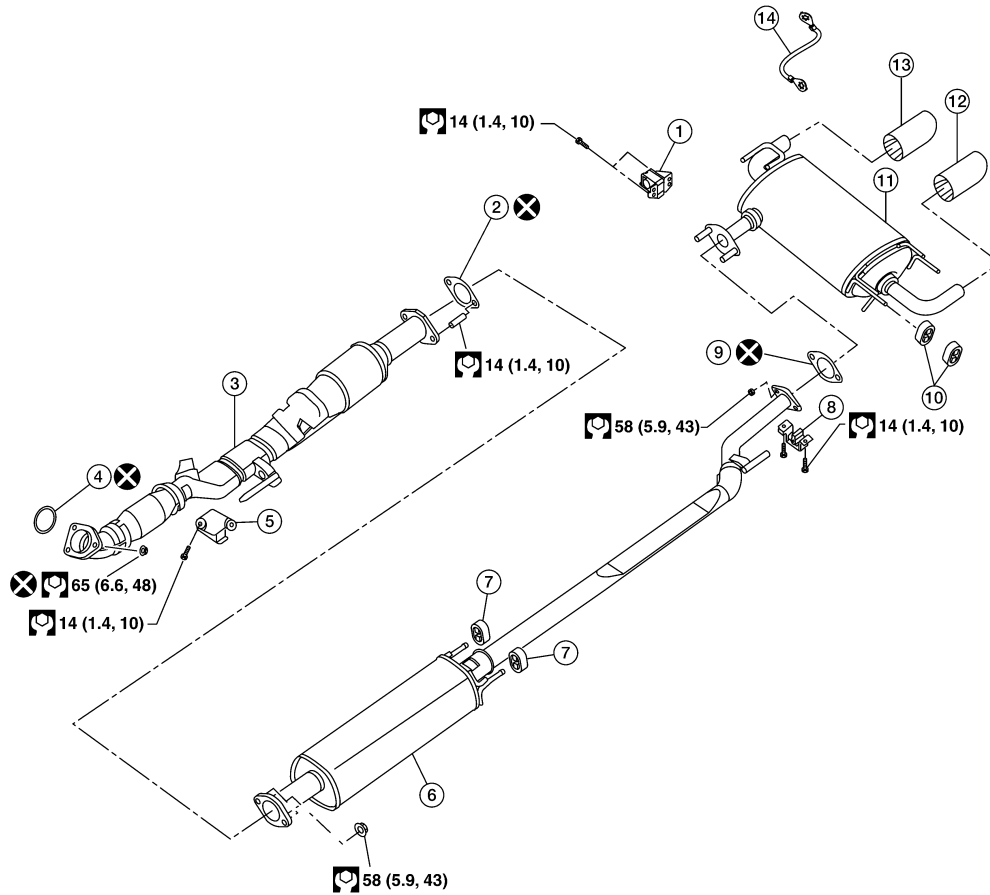
ON-VEHICLE REPAIR EXHAUST SYSTEM (QR25DE)

Removal and Installation

INFOID:000000001343145

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| 1. RH rear muffler bracket | 2. Gasket | 3. Front exhaust tube |
| 4. Ring gasket | 5. Front exhaust tube hanger | 6. Center exhaust tube |
| 7. Mounting rubber | 8. Center exhaust tube hanger | 9. Gasket |
| 10. Mounting rubber | 11. Rear muffler | 12. LH muffler tip |
| 13. RH muffler tip | 14. Ground strap | |

EXHAUST SYSTEM (QR25DE)

< ON-VEHICLE REPAIR >

[QR25DE]

Sedan Models

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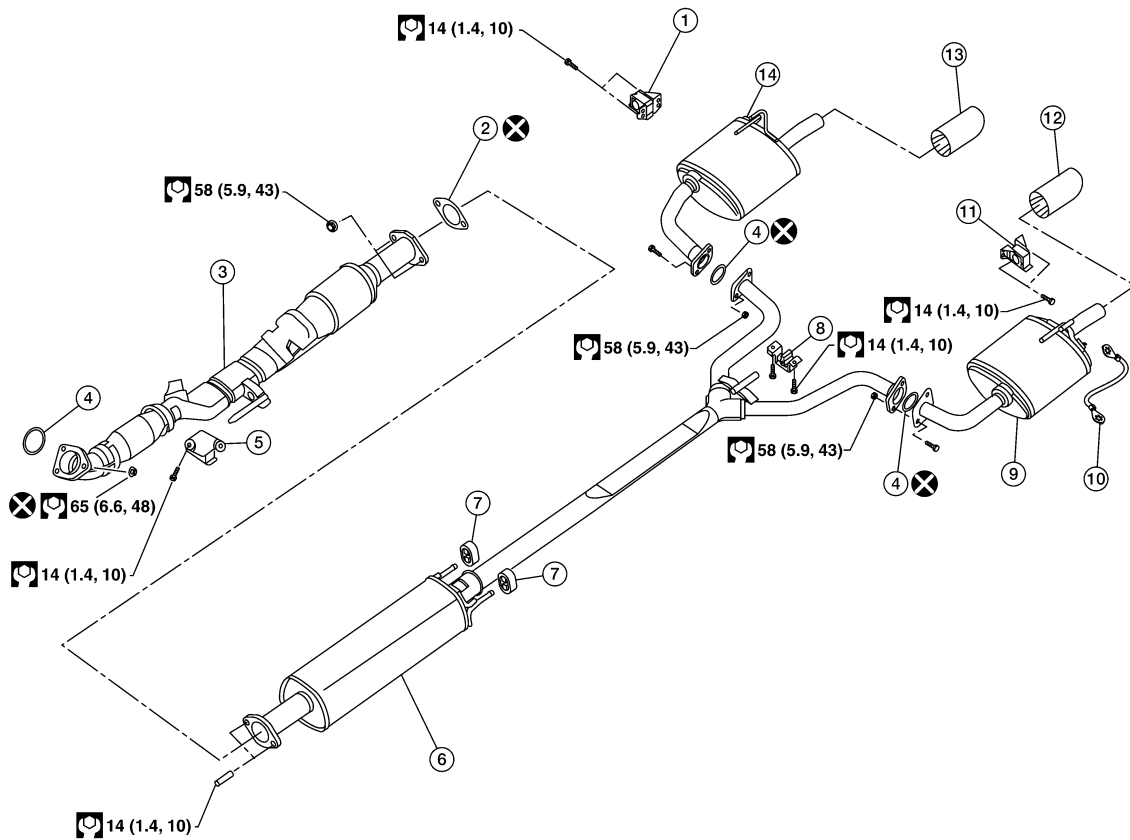
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|----------------------------|-------------------------------|------------------------|
| 1. RH rear muffler bracket | 2. Gasket | 3. Front exhaust tube |
| 4. Ring gasket | 5. Front exhaust tube hanger | 6. Center exhaust tube |
| 7. Mounting rubber | 8. Center exhaust tube hanger | 9. LH rear muffler |
| 10. Ground strap | 11. LH rear muffler bracket | 12. LH muffler tip |
| 13. RH muffler tip | 14. RH rear muffler | |

CAUTION:

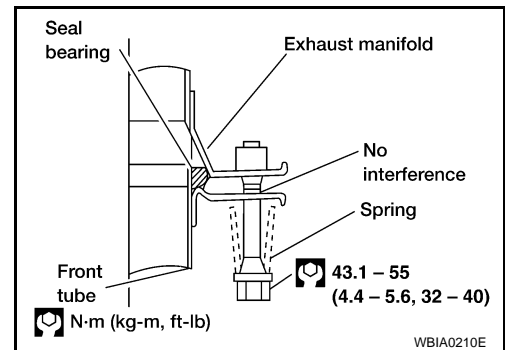
- Use genuine NISSAN exhaust system parts or equivalent, which are specifically designed for heat resistance, corrosion resistance, and shape.
- Perform the procedure with the exhaust system fully cooled down because the system will be hot just after the engine is turned off.
- Be careful not to cut your hand on the insulator edges.

EXHAUST SYSTEM (QR25DE)

< ON-VEHICLE REPAIR >

[QR25DE]

- If the insulator is badly deformed, repair or replace it. If deposits such as mud pile up on the insulator, clean and inspect the insulator.
- When installing the insulator avoid large gaps or interference between the insulator and each exhaust pipe.
- Remove deposits from the sealing surface of each connection. Connect them securely to avoid exhaust gas leaks.
- Temporarily tighten the exhaust manifold side nuts and the vehicle side bolts. Check each part for any interference, and then tighten the nuts and bolts to specification.
- When installing each mounting rubber, avoid twisting or excessive extension in up/down and right/left directions.
- Tighten the bolts without causing interference with the flange.
- Insert the seal bearing in the direction as shown. Tighten the bolt with the big end of the spring facing the flange as shown.



Inspection After Installation

INFOID:000000001343146

- With the engine running, check the exhaust tube joints for exhaust gas leaks and abnormal noise.
- Check that the mounting brackets and mounting insulators are installed properly and free from excessive stress. Improper installation could result in excessive noise, leaks, and vibration.

PRECAUTION

PRECAUTIONS

Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"

INFOID:000000001726706

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. This system includes seat belt switch inputs and dual stage front air bag modules. The SRS system uses the seat belt switches to determine the front air bag deployment, and may only deploy one front air bag, depending on the severity of a collision and whether the front occupants are belted or unbelted. Information necessary to service the system safely is included in the SR and SB section of this Service Manual.

WARNING:

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see the SR section.
- Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

Precaution for Liquid Gasket

INFOID:000000001726707

REMOVAL OF LIQUID GASKET SEALING

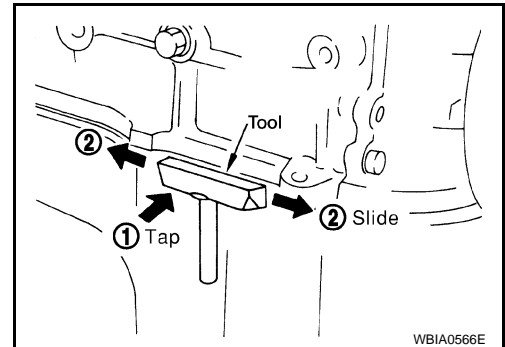
- After removing the bolts and nuts, separate the mating surface and remove the old liquid gasket sealing using Tool.

Tool number : KV1011100 (J-37228)

CAUTION:

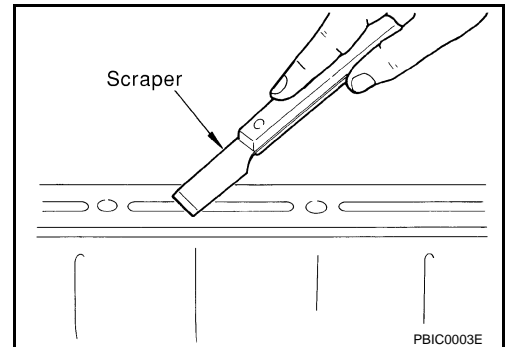
Do not damage the mating surfaces.

- Tap the seal cutter to insert it (1).
- In areas where the Tool is difficult to use, lightly tap to slide it (2).



LIQUID GASKET APPLICATION PROCEDURE

1. Remove the old liquid gasket adhering to the gasket application surface and the mating surface using suitable tool.
 - Remove the liquid gasket completely from the groove of the liquid gasket application surface, bolts, and bolt holes.
2. Thoroughly clean the mating surfaces and remove adhering moisture, grease and foreign material.



PRECAUTIONS

[VQ35DE]

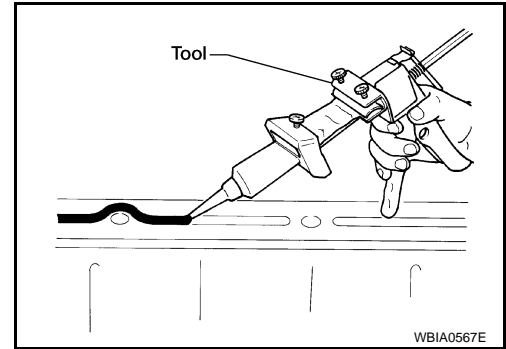
< PRECAUTION >

3. Attach the liquid gasket tube to the Tool.

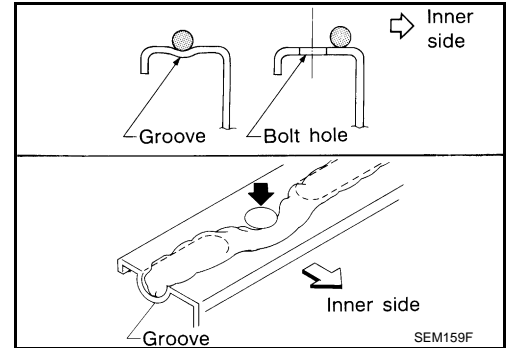
Tool number : WS39930000 (—)

Use Genuine RTV Silicone Sealant or equivalent. Refer to GI-15, "Recommended Chemical Products and Sealants".

4. Apply the liquid gasket without breaks to the specified location with the specified dimensions.



- If there is a groove for the liquid gasket application, apply the liquid gasket to the groove.
- As for the bolt holes, normally apply the liquid gasket inside the holes. If specified in the procedure, it should also be applied outside the holes.
- Within five minutes of liquid gasket application, install the mating component.
- If the liquid gasket protrudes, wipe it off immediately.
- Do not retighten after the installation.
- Wait 30 minutes or more after installation before refilling the engine with engine oil and engine coolant.



CAUTION:

If there are specific instructions in this manual, observe them.

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[VQ35DE]

PREPARATION

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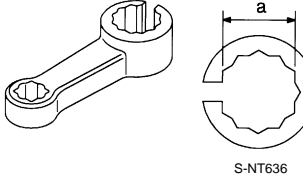
Special Service Tool

INFOID:000000001343147

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The actual shapes of Kent-Moore tools may differ from those of special service tools illustrated here.

Tool number (Kent-Moore No.) Tool name	Description
KV10114400 (J-38365) Heated oxygen sensor wrench 	Loosening or tightening heated oxygen sensors: a: 22 mm (0.87 in)

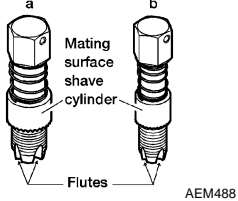

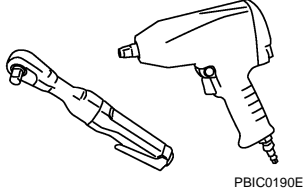
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Commercial Service Tool

INFOID:000000001343148

(Kent-Moore No.) Tool name	Description
(J-43897-18) (J-43897-12) Oxygen sensor thread cleaner 	Reconditioning the exhaust system threads before installing a new oxygen sensor (Use with anti-seize lubricant shown below): a: J-43897-18 (18 mm dia.) for zirconia oxygen sensor b: J-43897-12 (12 mm dia.) for titania oxygen sensor
Anti-seize lubricant (Permatex 133AR or equivalent meeting MIL specification MIL-A-907) 	Lubricating oxygen sensor thread cleaning tool when reconditioning exhaust system threads
Power tool 	Loosening nuts and bolts

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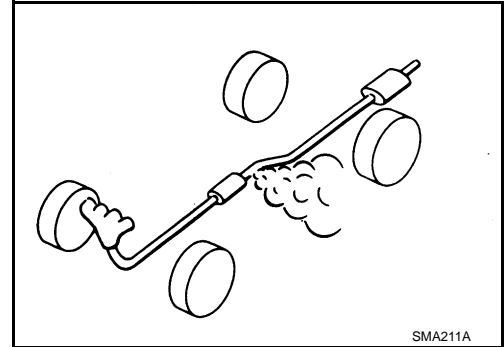
ON-VEHICLE MAINTENANCE

EXHAUST SYSTEM (VQ35DE)

Checking Exhaust System

INFOID:000000001343149

Check the exhaust pipes, muffler, and mounting components for incorrect attachment, leaks, cracks, damage, or deterioration.



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ON-VEHICLE REPAIR

EXHAUST SYSTEM (VQ35DE)

Removal and Installation

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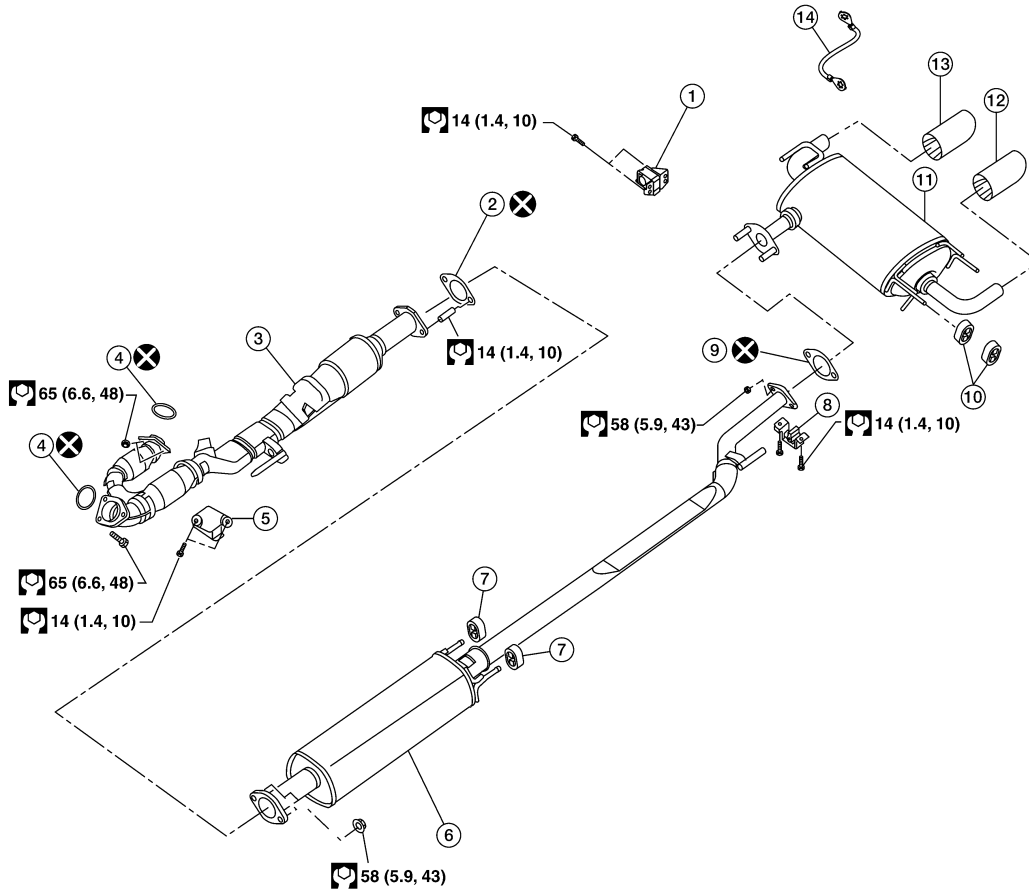
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| 1. RH rear muffler bracket | 2. Gasket | 3. Front exhaust tube |
| 4. Ring gasket | 5. Front exhaust tube hanger | 6. Center exhaust tube |
| 7. Mounting rubber | 8. Center exhaust tube hanger | 9. Gasket |
| 10. Mounting rubber | 11. Rear muffler | 12. LH muffler tip |
| 13. RH muffler tip | 14. Ground strap | |

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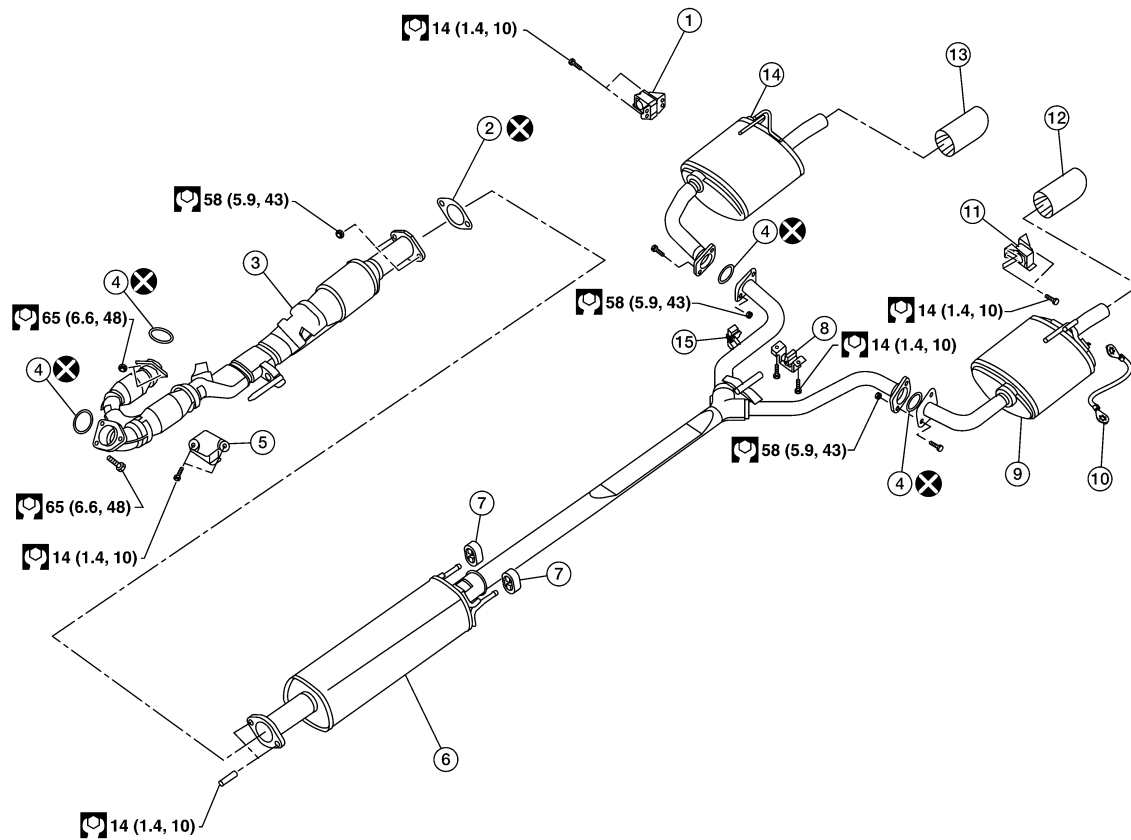
EXHAUST SYSTEM (VQ35DE)

< ON-VEHICLE REPAIR >

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| 1. RH rear muffler bracket | 2. Gasket | 3. Front exhaust tube |
| 4. Ring gasket | 5. Front exhaust tube hanger | 6. Center exhaust tube |
| 7. Mounting rubber | 8. Center exhaust tube hanger | 9. LH rear muffler |
| 10. Ground strap | 11. LH rear muffler bracket | 12. LH muffler tip |
| 13. RH muffler tip | 14. RH rear muffler | 15. Dampner |

CAUTION:

- Use genuine NISSAN exhaust system parts or equivalent, which are specifically designed for heat resistance, corrosion resistance, and shape.
- Perform the procedures with the exhaust system fully cooled down because the system will be hot just after the engine is turned off.
- Be careful not to cut your hand on the insulator edge.

EXHAUST SYSTEM (VQ35DE)

[VQ35DE]

< ON-VEHICLE REPAIR >

- Always replace the exhaust gaskets with new ones for installation.
- If any insulator is badly deformed, repair or replace it. If deposits such as mud pile up on the insulator, clean and inspect them.
- When installing the insulator avoid large gaps or interference between the insulator and the exhaust pipe.
- Remove any deposits from the sealing surface of each connection. Connect them securely to avoid exhaust gas leakage.
- Temporarily tighten the mounting nuts on the exhaust manifold side and the mounting bolts on the vehicle side. Check each part for interference with other components, and then tighten the nuts and bolts to specification.
- When installing each mounting rubber, avoid twisting or any over extension in up/down and right/left directions.

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Inspection After Installation

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- With the engine running, check the exhaust tube joints for exhaust gas leaks and unusual noises.
- Check that the mounting brackets and mounting insulators are installed properly and free from excessive stress. Improper installation could result in excessive noise, leaks, and vibration.

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